WeCanDoNow.com Lab - Kafka Producer Without Key by Saravanan Sundaramoorthy

Producer API

The Producer API allows applications to send streams of data to topics in the Kafka cluster.

Maven Project Creation

```
mkdir -p /home/wecandonow/Kafka/java
cd /home/wecandonow/Kafka/java
```

Create a Project from Maven Template

```
sudo apt install maven -y

mvn archetype:generate -DgroupId=com.admatic -DartifactId=Kafka-Producer -DarchetypeArtifactId=maven-archetype-quickstart
cd Kafka-Producer/
```

Add Kafka dependencies in `pom.xml`

```
vim pom.xml
```

```
<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.admatic</groupId>
  <artifactId>Kafka-Producer</artifactId>
  <packaging>jar</packaging>
  <version>1.0-SNAPSHOT</version>
  <name>Kafka-Producer</name>
  <url>http://maven.apache.org</url>

  <build>
    <plugins>
        <plugin>
            <groupId>org.apache.maven.plugins</groupId>
            <artifactId>maven-compiler-plugin</artifactId>
```

```xml
                <version>3.7.0</version>
                <configuration>
                    <source>1.8</source>
                    <target>1.8</target>
                </configuration>
            </plugin>
            <plugin>
                <groupId>org.apache.maven.plugins</groupId>
                <artifactId>maven-assembly-plugin</artifactId>
                <version>2.4.1</version>
                <configuration>
                    <archive>
                        <manifest>
                            <mainClass>com.admatic.App</mainClass>
                        </manifest>
                    </archive>
                    <descriptorRefs>
                        <descriptorRef>jar-with-dependencies</descriptorRef>
                    </descriptorRefs>
                    <skipAssembly>false</skipAssembly>
                </configuration>
                <executions>
                    <execution>
                        <id>package</id>
                        <phase>package</phase>
                        <goals>
                            <goal>single</goal>
                        </goals>
                    </execution>
                </executions>
            </plugin>
        </plugins>
    </build>

    <dependencies>
        <dependency>
            <groupId>junit</groupId>
            <artifactId>junit</artifactId>
            <version>3.8.1</version>
            <scope>test</scope>
        </dependency>

        <dependency>
            <groupId>org.apache.kafka</groupId>
            <artifactId>kafka_2.12</artifactId>
            <version>1.0.1</version>
        </dependency>

        <dependency>
            <groupId>org.apache.kafka</groupId>
            <artifactId>kafka-clients</artifactId>
            <version>1.0.1</version>
        </dependency>
```

```xml
        <dependency>
            <groupId>org.apache.kafka</groupId>
            <artifactId>kafka-streams</artifactId>
            <version>1.0.1</version>
        </dependency>
    </dependencies>
</project>
```

```
vim src/main/java/com/admatic/App.java
```

```java
package com.admatic;

/**
 * Hello world!
 *
 */
public class App
{
    public static void main( String[] args )
    {
        System.out.println( "Hello Robochef robotic kitchen !" );
    }
}
```

```
vim src/main/java/com/admatic/App.java
```

Compile and Run the App

```
mvn compile
mvn exec:java -Dexec.mainClass="com.admatic.App"
```